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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,738	10/21/2005	Tsutomu Ichihara	P28028	7298
7055 GREENBLUM	7590 12/21/2006 <b>1</b> & BERNSTEIN, P.L.C.	EXAMINER		
1950 ROLAND CLARKE PLACE RESTON, VA 20191			PATEL, VIP	
			ART UNIT	PAPER NUMBER
·	•		2879	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MONTHS		12/21/2006	ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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gbpatent@gbpatent.com pto@gbpatent.com

	Application No.	Applicant(s)				
	10/538,738	ICHIHARA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vip patel	2879				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by standard patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become	ICATION. I reply be timely filed INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status	• •					
1) Responsive to communication(s) filed on _						
2a) This action is <b>FINAL</b> 2b) ⊠ 1	his action is non-final.					
3) Since this application is in condition for allo						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-18 is/are pending in the applicat	ion.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	•					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)	·					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date.						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>	3) Notice of Information Disclosure Statement(s) (PTO/SB/08)					
Paper No(s)/Mail Date <u>0905</u> . 6) Uther:						

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## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In line 14 of claim 1, "said lower layer" lacks antecedent basis. In line 1 of claim 1, the phrase "type" should be deleted so that the field emission electron source is claimed and not other un-described sources. See MPEP § 2173.05(d).

Claims 2-18 are indefinite for the same reasons since by their dependencies, it incorporate the same deficiency as their parent claim.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Ichihara et al (EP 1 094485 A2).

Regarding claims 1-2, Ichihara discloses a field emission electron source (see figure 1) comprising an insulative substrate (11), an electron source element (combination of 8, 9, 3, 6, and 7) having a lower electrode (8), an amorphous buffer layer (3) having greater resistance than polycrystalline silicon, a strong drift layer (6)

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including polycrystalline silicon, and a surface electrode (7). Please see Paragraphs 14, 15, 21, 56, 74, and 90.

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vip Patel whose telephone number is (571) 272-2458. The examiner can normally be reached on 5.30am-2pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have guestions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner